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LOGINID:SSSPTA1204BXD

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * *   Welcome to STN International   * * * * * * * * * * *

NEWS 1   Web Page URLs for STN Seminar Schedule - N. America
NEWS 2   "Ask CAS" for self-help around the clock
NEWS 3   FEB 25   CA/CAPLUS - Russian Agency for Patents and Trademarks
                     (ROSPATENT) added to list of core patent offices covered
NEWS 4   FEB 28   PATDPAFULL - New display fields provide for legal status
                     data from INPADOC
NEWS 5   FEB 28   BABS - Current-awareness alerts (SDIs) available
NEWS 6   FEB 28   MEDLINE/LMEDLINE reloaded
NEWS 7   MAR 02   GBFULL: New full-text patent database on STN
NEWS 8   MAR 03   REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS 9   MAR 03   MEDLINE file segment of TOXCENTER reloaded
NEWS 10 MAR 22   KOREAPAT now updated monthly; patent information enhanced
NEWS 11 MAR 22   Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS 12 MAR 22   PATDPASPC - New patent database available
NEWS 13 MAR 22   REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS 14 APR 04   EPFULL enhanced with additional patent information and new
                     fields
NEWS 15 APR 04   EMBASE - Database reloaded and enhanced
NEWS 16 APR 18   New CAS Information Use Policies available online

NEWS EXPRESS   JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

NEWS HOURS   STN Operating Hours Plus Help Desk Availability
NEWS INTER   General Internet Information
NEWS LOGIN   Welcome Banner and News Items
NEWS PHONE   Direct Dial and Telecommunication Network Access to STN
NEWS WWW   CAS World Wide Web Site (general information)

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    * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 14:48:27 ON 25 APR 2005

=> fil reg
COST IN U.S. DOLLARS   SINCE FILE   TOTAL

Page 1

FILE 'REGISTRY' ENTERED AT 14:48:38 ON 25 APR 2005
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STRUCTURE FILE UPDATES: 24 APR 2005 HIGHEST RN 849094-71-9
DICTIONARY FILE UPDATES: 24 APR 2005 HIGHEST RN 849094-71-9

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TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

   Please note that search-term pricing does apply when
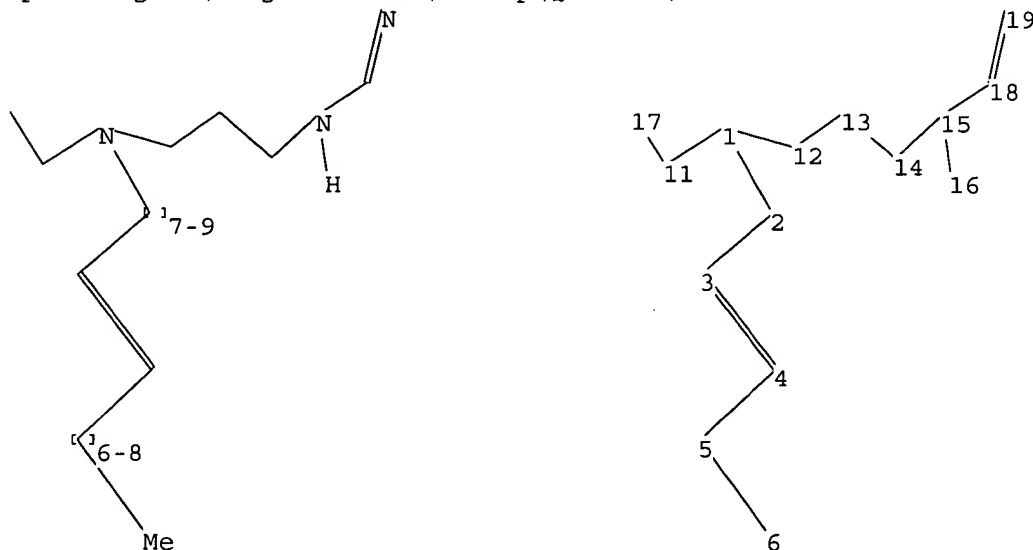   conducting SmartSELECT searches.

****
*   *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005. A new display format, IDERL, is now   *
* available and contains the CA role and document type information. *
*   *
****

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to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\09438365.str

chain nodes :
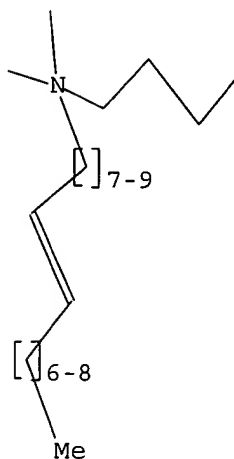
```
1   2   3   4   5   6   11   12   13   14   15   16   17   18   19
chain bonds :
1-2   1-11   1-12   2-3   3-4   4-5   5-6   11-17   12-13   13-14   14-15   15-16   15-18
18-19
exact/norm bonds :
1-2   1-11   1-12   14-15   15-18   18-19
exact bonds :
2-3   3-4   4-5   5-6   11-17   12-13   13-14   15-16


Match level :
1:CLASS   2:CLASS   3:CLASS   4:CLASS   5:CLASS   6:CLASS   11:CLASS   12:CLASS   13:CLASS
14:CLASS   15:CLASS   16:CLASS   17:CLASS   18:CLASS   19:CLASS
```

```
L1        STRUCTURE UPLOADED

=> d query
L1                STR
```



```
Structure attributes must be viewed using STN Express query preparation.


=> s l1
SAMPLE SEARCH INITIATED 14:48:57 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    292 TO ITERATE

100.0% PROCESSED    292 ITERATIONS                              10 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:   ONLINE   **COMPLETE**
                         BATCH    **COMPLETE**
PROJECTED ITERATIONS:        4815 TO       6865
PROJECTED ANSWERS:             11 TO        389

L2            10 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 14:49:03 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   5965 TO ITERATE
```

L3   158 SEA SSS FUL L1

=> fil caplus
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                               ENTRY   SESSION

FULL ESTIMATED COST   161.33   161.54

FILE 'CAPLUS' ENTERED AT 14:49:11 ON 25 APR 2005
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FILE COVERS 1907 - 25 Apr 2005 VOL 142 ISS 18
FILE LAST UPDATED: 24 Apr 2005 (20050424/ED)

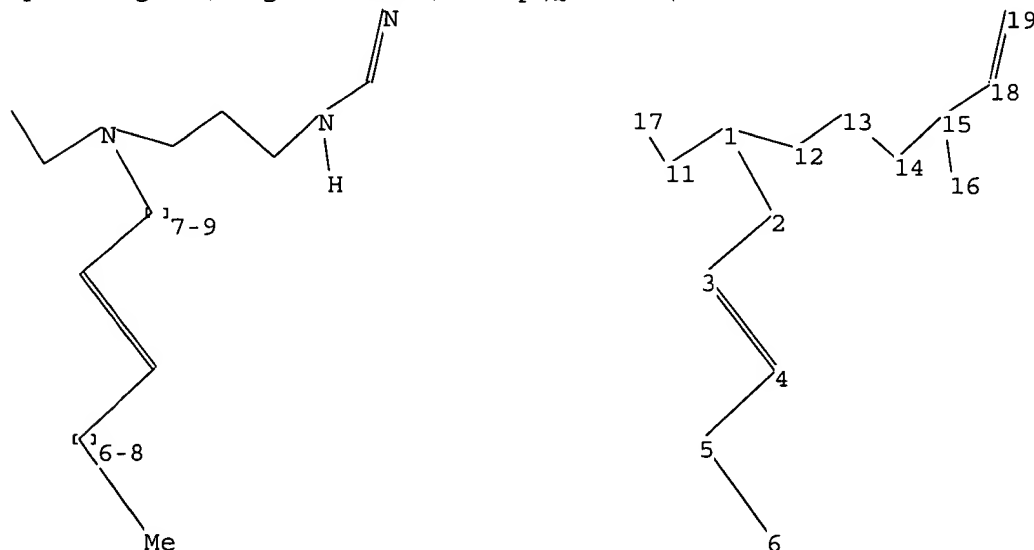New CAS Information Use Policies, enter HELP USAGETERMS for details.

   This file contains CAS Registry Numbers for easy and accurate
   substance identification.

=> s 13
L4   281 L3

=>
Uploading C:\Program Files\Stnexp\Queries\09438365.str

chain nodes :

```
1  2  3  4  5  6  11  12  13  14  15  16  17  18  19
chain bonds :
1-2  1-11  1-12  2-3  3-4  4-5  5-6  11-17  12-13  13-14  14-15  15-16  15-18
18-19                        .
exact/norm bonds :
1-2  1-11  1-12  14-15  15-18  18-19
exact bonds :
2-3  3-4  4-5  5-6  11-17  12-13  13-14  15-16
```

```
Match level :
1:CLASS  2:CLASS  3:CLASS  4:CLASS  5:CLASS  6:CLASS  11:CLASS  12:CLASS  13:CLASS
14:CLASS  15:CLASS  16:CLASS  17:CLASS  18:CLASS  19:CLASS
```

```
L5        STRUCTURE UPLOADED

=> d query
L5                STR
```
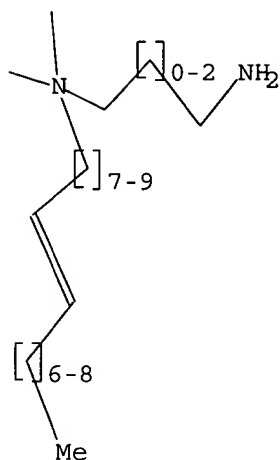

Structure attributes must be viewed using STN Express query preparation.

```
=> s l5
   REG1stRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.
```

```
SAMPLE SEARCH INITIATED 14:50:20 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      99 TO ITERATE

100.0% PROCESSED      99 ITERATIONS                        1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
```

```
PROJECTED ITERATIONS:            1384 TO      2576
PROJECTED ANSWERS:                  1 TO        80


L6              1 SEA SSS SAM L5



L7              0 L6

=> fil reg
COST IN U.S. DOLLARS                              SINCE FILE       TOTAL
                                                     ENTRY       SESSION
FULL ESTIMATED COST                                   0.45        163.32

FILE 'REGISTRY' ENTERED AT 14:50:32 ON 25 APR 2005
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DICTIONARY FILE UPDATES:   24 APR 2005   HIGHEST RN 849094-71-9

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TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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*********************************************************************
*                                                                   *
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* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                   *
*********************************************************************

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>

=> s l5 full
FULL SEARCH INITIATED 14:50:36 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   1967 TO ITERATE

100.0% PROCESSED    1967 ITERATIONS                         6 ANSWERS
SEARCH TIME: 00.00.01

L8              6 SEA SSS FUL L5

=> fil caplus
COST IN U.S. DOLLARS                              SINCE FILE       TOTAL
```

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FILE COVERS 1907 - 25 Apr 2005   VOL 142 ISS 18
FILE LAST UPDATED: 24 Apr 2005   (20050424/ED)

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  This file contains CAS Registry Numbers for easy and accurate
  substance identification.

=> s 18
L9   2 L8

=> d 19 1-2 abs ibib hitstr

AB   The title compds. are useful as emulsifying agents and as fat-liquoring or
     softening agents for leather, paper, and textiles. Inter-mediates
     RNHCH2CH(OH)CONH2 (I) and RN{CH2CH(OH)-CONH2}2 (II) were prepared by
     reacting 1 or 2 moles glycidamide with 1 mole of amine RNH2 in 25 aqueous,
aqueous
     methanolic, or methanolic solution at 50-60° during 1-2 hr.
     Quaternization of I and II was carried out by treating with an appropriate
     halide in H2O, aqueous methanolic or methanolic solution at 30-50° for 2-3
     hr then at 50° for 2-3 hr. Aqueous solns. containing 0.3 g/l.
     {C18H39-NMe[CH2CH(OH)CONH2]2}+MeSO4- were used to treat cot-ton and
     polycaprolactam fabrics giving material with a soft pleasant hand and
     hydrophilic in character.

ACCESSION NUMBER: 1971:87345 CAPLUS
DOCUMENT NUMBER: 74:87345
TITLE: (β-Carbamyl-β-hydroxyethyl)alkylammonium
                          salts
PATENT ASSIGNEE(S):   Badische Anilin- & Soda-Fabrik AG
SOURCE: Brit., 12 pp.
                          CODEN: BRXXAA
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

        PATENT NO.   KIND   DATE   APPLICATION NO.   DATE
        --------------   ----   --------   -------------------- --------
        GB 1211040   19701104   GB
        FR 1592740   FR
        US 3632623   19720000   US
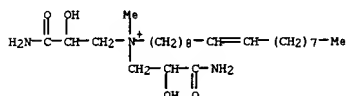PRIORITY APPLN. INFO.:   DE   19671121
IT 32671-74-2P
        RL: SPN (Synthetic preparation); PREP (Preparation)
            (preparation of)
RN 32671-74-2 CAPLUS
CN Ammonium, bis(2-carbamoyl-2-hydroxyethyl)methyl-9-octadecenyl-, methyl
    sulfate, (Z)- (8CI) (CA INDEX NAME)

    CM   1

    CRN 48077-37-8
    CMF C25 H50 N3 O4

H2N—C—CH—CH2—N+—(CH2)8—CH=CH—(CH2)7—Me
      ‖ | |
      O OH   Me
                |
         CH2—CH—C—NH2
              | ‖
             OH O

    CM   2

    CRN 21228-90-0
    CMF C H3 O4 S

AB   The title compds. [RR1R2NCH2CONH2]+X- (I), useful as antistatic agents for
     synthetic fibers, were prepared by reaction of a tertiary amine, RR1R2N (II)
     with XCH2CONH2 (III, X = halogen). Thus, a solution of 297 II (R =
n-C18H37,
     R1 = R2 = Me) and 93.5 III (X = Cl) in 390 (weight parts) MeOH was refluxed
4
     hrs., evaporated in vacuo at 50-60°, cooled, and filtered to give I (R
     = n-C18H37, R1 = R2 = Me, X = Cl), straw-colored solids. Other I prepared
     were (R, R1, R2, X): stearamidopropyl, CH2CH2OH, CH2CH2OH, Cl;
     n-C11H23CO2CH2CH2, CH2CH2OH, CH2CH2OH, Cl; oleyl, CH2CH2OAc, CH2CH2OAc,
     Cl; Me n-C11H23CONH-CH2CH2, C11H23CONHCH2CH2, Br; and Me, oleyl, oleyl,
     Br; lauryl, (NR1R2=) morpholino, Cl; oleyl, (CH2CH2O)aH, (CH2CH2O)bH, Br.

ACCESSION NUMBER: 1969:114596 CAPLUS
DOCUMENT NUMBER: 70:114596
TITLE: Quaternary ammonium salts
INVENTOR(S):   Fujimoto, Takehiko; Saito, Toshio; Suwada, Ataru;
                          Ohno, Satoyoshi
PATENT ASSIGNEE(S):   Sanyo Chemical Industry Co., Ltd.
SOURCE: Jpn. Tokkyo Koho, 3 pp.
                          CODEN: JAXXAD
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
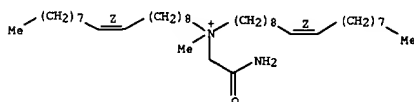FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

        PATENT NO.   KIND   DATE   APPLICATION NO.   DATE
        --------------   ----   --------   -------------------- --------
        JP 43013966   B4   19680613   JP   19640616
IT 23208-83-5P
        RL: SPN (Synthetic preparation); PREP (Preparation)
            (preparation of)
RN 23208-83-5 CAPLUS
CN Ammonium, (carbamoylmethyl)methyldi-9-octadecenyl-, bromide, (Z,Z)- (8CI)
    (CA INDEX NAME)

Double bond geometry as shown.

Me—(CH2)7—Z—(CH2)8—N+—(CH2)8—Z—(CH2)7—Me
                    |
                   Me
                    |
                   NH2
                    |
                   C
                   ‖
                   O

                          ● Br-

```
=> fil reg
COST IN U.S. DOLLARS                                  SINCE FILE       TOTAL
                                                         ENTRY       SESSION
FULL ESTIMATED COST                                      11.23        335.88


DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)            SINCE FILE       TOTAL
                                                         ENTRY       SESSION
CA SUBSCRIBER PRICE                                      -1.46         -1.46
```

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DICTIONARY FILE UPDATES: 24 APR 2005   HIGHEST RN 849094-71-9

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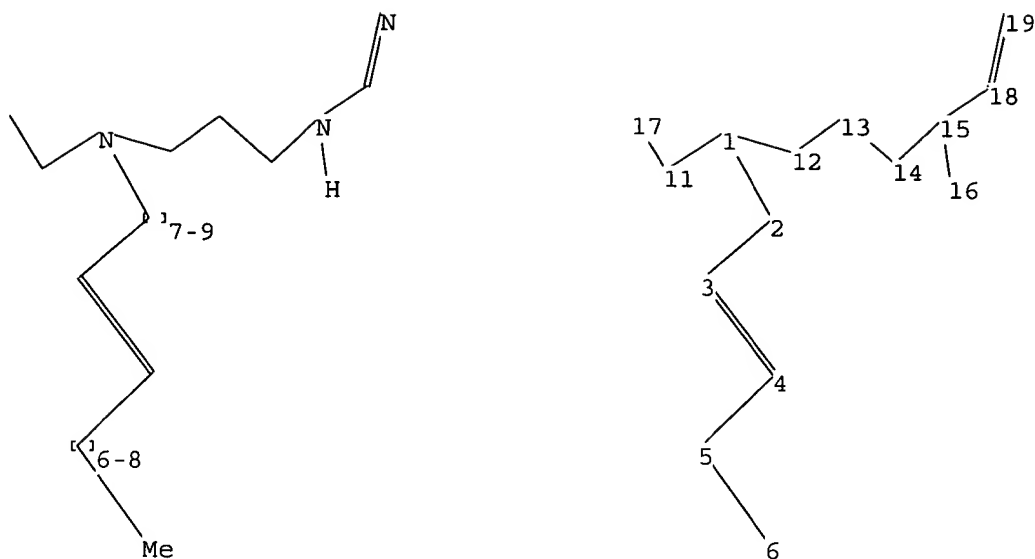TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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****
*   *
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* effective March 20, 2005. A new display format, IDERL, is now   *
* available and contains the CA role and document type information. *
*   *
****

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information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
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=>
Uploading C:\Program Files\Stnexp\Queries\09438365.str
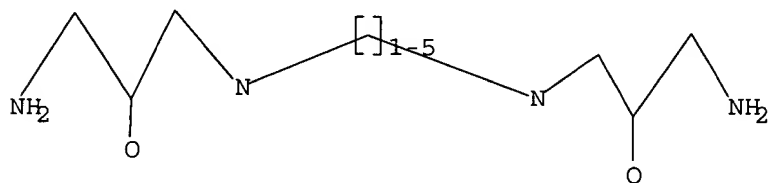
chain nodes :
1 2 3 4 5 6 11 12 13 14 15 16 17 18 19
chain bonds :
1-2 1-11 1-12 2-3 3-4 4-5 5-6 11-17 12-13 13-14 14-15 15-16 15-18
18-19
exact/norm bonds :
1-2 1-11 1-12 14-15 15-18 18-19
exact bonds :
2-3 3-4 4-5 5-6 11-17 12-13 13-14 15-16

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 11:CLASS 12:CLASS 13:CLASS
14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS

L10   STRUCTURE UPLOADED

=> d query
L10   STR

Structure attributes must be viewed using STN Express query preparation.

=> s l10
SAMPLE SEARCH INITIATED 14:54:31 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED -   3239 TO ITERATE

 30.9% PROCESSED   1000 ITERATIONS   0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS: 61367 TO   68193
PROJECTED ANSWERS: 0 TO   0

L11   0 SEA SSS SAM L10

=> s l10 full
FULL SEARCH INITIATED 14:54:35 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 63729 TO ITERATE

100.0% PROCESSED   63729 ITERATIONS   10 ANSWERS
SEARCH TIME: 00.00.02

L12   10 SEA SSS FUL L10

=> fil caplus
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                 ENTRY   SESSION
FULL ESTIMATED COST   162.62   498.50

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)   SINCE FILE   TOTAL
                                                 ENTRY   SESSION
CA SUBSCRIBER PRICE   0.00   -1.46

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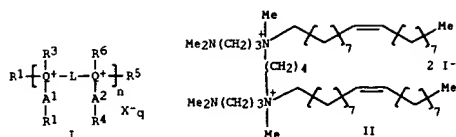strictly prohibited.

FILE COVERS 1907 - 25 Apr 2005 VOL 142 ISS 18
FILE LAST UPDATED: 24 Apr 2005 (20050424/ED)

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=> s l12
L13   7 L12

```
=> d 113 1-7 abs ibib hitstr
```

AB   Synthesis and activity of transfection reagents (I) [Q = N, O, S; L =
     (un)substituted alkyl, ether, polyether, amide, polyamide, ester, sulfide,
     urea, thiourea, guanidyl, carbamoyl, carbonate, phosphate, sulfate,
     sulfoxide, imine, carbonyl, secondary amine; R1-R6 independently =
     (un)substituted alkyl, alkenyl, aryl, ether; A1, A2 independently = CH2O,
     CH2S, CH2NH, CO, C=NH, CS, alkyl; X = physiol. acceptable anion; n =
     1-1000; q = number of pos. charge divided by valence of anion], cationic
     lipids capable of facilitating transport of biol. active agents or
     substances into cells, are disclosed. Thus, I [R1,R4 = oleyl; R2,R5 =
     Me2N(CH2)3; R3,R6 = Me; A1,A2 = CH2; L = (CH2)4; X = I] (II) is prepared by
     reaction of bis-1,4-oleyl-1,4-butanediamine with acrylonitrile followed by
     reduction of nitrile to amine and quaternization of amine with Me iodide.
     II
     shows an activity of 37.8 ng/βgal/cm2 in DNA delivery. Formulations
     containing I are given.
ACCESSION NUMBER: 2000:335366 CAPLUS
DOCUMENT NUMBER: 132:334312
TITLE: synthesis and activity of transfection reagents for
                       transport of biol. active agents or substances into
                       cells
INVENTOR(S):   Chu, Yongliang; Masoud, Malek; Gebeyehu, Gulilat
PATENT ASSIGNEE(S):   Life Technologies, Inc., USA
SOURCE: PCT Int. Appl., 130 pp.
                       CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000027795	A1	20000518	WO 1999-US26825	19991112
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2350882	AA	20000518	CA 1999-2350882	19991112
EP 1129064	A1	20010905	EP 1999-971794	19991112
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

REFERENCE COUNT: 13   THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS
                              RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

JP 2002529439	T2	20020910	JP 2000-580975		19991112
NZ 512244	A	20031219	NZ 1999-512244		19991112
AU 772847	B2	20040506	AU 2000-14776		19991112

PRIORITY APPLN. INFO.:   US 1998-108117P P 19981112
                                         WO 1999-US26825 W 19991112
OTHER SOURCE(S):   MARPAT 132:334312
IT   268554-14-9P
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
     BIOL (Biological study); PREP (Preparation); USES (Uses)
         (synthesis and activity of transfection reagents for transport of biol.
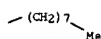   active agents or substances into cells)
RN   268554-14-9 CAPLUS
CN   9-Octadecenamide, N,N'-1,4-butanediylbis[N-(3-amino-2-hydroxy-4-
     phenylbutyl)-, (9Z,9'Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.
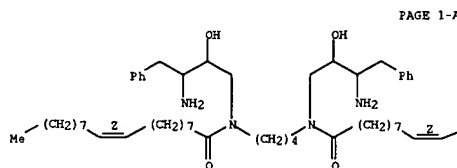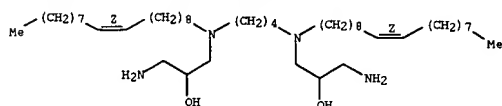
PAGE 1-A

PAGE 1-B

IT   268539-48-6P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
         (synthesis and activity of transfection reagents for transport of biol.
         active agents or substances into cells)
RN   268539-48-6 CAPLUS
CN   2-Propanol, 1,1'-[1,4-butanediylbis[(9Z)-9-octadecenylimino]]bis[3-amino-
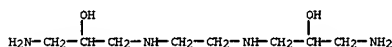   (9CI) (CA INDEX NAME)

Double bond geometry as shown.

AB   Eleven substituted 1,4,8,11-tetraazacyclotetradecanenickel(II) complexes
     were prepared by the Ni ion assisted cyclization of 1,5,8,12-
     tetraazadodecanes with glyoxal and reduction of the unsatd. complex obtained
     in the cyclization reaction. NaBH4 or H and Raney nickel catalyst were
     used for the reduction With 2 exceptions, yields of the saturated
     complexes were
     50-75%. Macrocyclic tetramines were obtained by decomposition of the Ni
     complexes with cyanide ion. 1,5,9,15-Tetraazacyclopentadecane was prepared
     in 45% yield from 1,5,9,13-tetraazatridecane by this method.
ACCESSION NUMBER: 1976:413135 CAPLUS
DOCUMENT NUMBER: 85:13135
TITLE: Synthesis of macrocyclic tetramines by metal ion
                       assisted cyclization reactions
AUTHOR(S):   Barefield, E. Kent; Wagner, F.; Hodges, Keith D.
CORPORATE SOURCE: Univ. Illinois, Urbana, IL, USA
SOURCE: Inorganic Chemistry (1976), 15(6), 1370-7
                       CODEN: INOCAJ; ISSN: 0020-1669
DOCUMENT TYPE: Journal
LANGUAGE: English
IT   58770-22-2P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
         (preparation and reactions of)
RN   58770-22-2 CAPLUS
CN   2-Propanol, 1,1'-(1,2-ethanediyldiimino)bis[3-amino- (9CI) (CA INDEX
   NAME)

AB   Sixteen secondary and tertiary β-carbamoyl-β-hydroxyethylamines
      with Fe-chelating properties were prepared in 76-94% yield by the addition
      reaction of H2NNH2, HONH2, NH3, or aliphatic primary amines or N2-4
      polyamines with 2-6 moles of glycidamide or its N-(hydroxymethyl) or
      N-(methoxymethyl) derivative Thus, 4 moles N-(hydroxymethyl)glycidamide
added
      to 1 mole H2N(CH2)6NH2 in 1-2 hr at room temperature to give 86%
      [[HOCH2NHCOCH(OH)CH2]2N(CH2)3]2, 100 mg of which sequestered 84 mg Fe3+ at
      pH 5, compared to 15 mg Fe3+ by Na4EDTA.
ACCESSION NUMBER: 1975:605787 CAPLUS
DOCUMENT NUMBER: 83:205787
TITLE: β-Carbamoyl-β-hydroxyethylamines
INVENTOR(S):   Sander, Bruno; Fuchs, Friedrich; Becke, Friedrich;
                           Kohlhaupt, Reinhold
PATENT ASSIGNEE(S):   BASF A.-G., Fed. Rep. Ger.
SOURCE: Ger., 6 pp.
                           CODEN: GWXXAW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1543378	A	19720330	DE 1966-B89683	19661104
DE 1543378	B2	19750410		
DE 1543378	C3	19751120		
CH 482647	A	19691215	CH 1967-482647	19671026
CH 6715008	A4	19700130	CH 1967-1500867	19671026
CH 490473	A	19700515	CH 1967-490473	19671026
NL 6714920	A	19680506	NL 1967-14920	19671102
BE 706033	A	19680503	BE 1967-706033	19671103
AT 277280	B	19691229	AT 1967-9936	19671103
GB 1195427	A	19700617	GB 1967-1195427	19671103
			DE 1966-B89683	A 19661104

PRIORITY APPLN. INFO.:
IT   23918-41-4P 25937-86-4P 25937-87-5P
      25937-93-3P 25937-94-4P
      RL: SPN (Synthetic preparation); PREP (Preparation)
          (preparation of)
RN   23918-41-4 CAPLUS
CN   Propanamide, 3,3',3'',3'''-(1,2-ethanediyldinitrilo)tetrakis[2-hydroxy-
   (9CI)   (CA INDEX NAME)

RN   25937-86-4 CAPLUS
CN   Propanamide, 3,3',3'',3'''-[(1-methyl-1,2-ethanediyl)dinitrilo]tetrakis[2-
      hydroxy- (9CI)   (CA INDEX NAME)

RN   25937-87-5 CAPLUS
CN   Propanamide, 3,3',3'',3'''-(1,3-propanediyldinitrilo)tetrakis[2-hydroxy-
      (9CI)   (CA INDEX NAME)

RN   25937-93-3 CAPLUS
CN   Propanamide, 3,3',3'',3'''-[[(3-amino-2-hydroxy-3-oxopropyl)imino]bis(2,1-
      ethanediylnitrilo)]tetrakis[2-hydroxy- (9CI)   (CA INDEX NAME)

RN   25937-94-4 CAPLUS
CN   4,7,10,13-Tetraazahexadecanediamide, 4,7,10,13-tetrakis(3-amino-2-hydroxy-
      3-oxopropyl)-2,15-dihydroxy- (9CI)   (CA INDEX NAME)

AB   Five R(CH2CH(OH)COR1 n [I, n = 1-3; R = n-C18H37NH, cyclohexylamino,
      PhCH2N, [HO2CCH(OH)CH2 2-NCH2CH2N, or N; R1 = OH , useful as complex
      components for masking metal ions, especially Fe, in the paper and textile
      industry, were prepared by treating I (R1 = NH2) with aqueous KOH several
hr at
      100° with NH3 evolution.
ACCESSION NUMBER: 1972:539433 CAPLUS
DOCUMENT NUMBER: 77:139433
TITLE: β-Aminolactic acids
INVENTOR(S):   Becke, Friedrich; Fleig, Helmut
PATENT ASSIGNEE(S):   Badische Anilin- & Soda-Fabrik AG
SOURCE: Ger. Offen., 10 pp.
                           CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2103453	A	19720817	DE 1971-2103453	19710126
BE 778403	A1	19720724	BE 1972-113150	19720124
FR 2124807	A5	19720922	FR 1972-2185	19720124
GB 1368203	A	19740925	GB 1972-3417	19720125

PRIORITY APPLN. INFO.:   DE 1971-2103453 A 19710126
IT   23918-41-4
      RL: RCT (Reactant); RACT (Reactant or reagent)
          (reaction of, with potassium hydroxide)
RN   23918-41-4 CAPLUS
CN   Propanamide, 3,3',3'',3'''-(1,2-ethanediyldinitrilo)tetrakis[2-hydroxy-
      (9CI)   (CA INDEX NAME)

AB The heat resistance of a 3:97 1,3-dioxolane-trioxane copolymer
    [24969-26-4] (containing 0.02% NaF and 0.2-0.4% phenolic antioxidant) is
    increased by adding 0.1-0.2% nitrilotrilactamide [23918-39-0] or
    ethylenediaminetetralactamide [23918-41-4].

ACCESSION NUMBER:	1972:128123 CAPLUS
DOCUMENT NUMBER:	76:128123
TITLE:	Stabilizing thermoplastic polyacetals
INVENTOR(S):	Sander, Bruno; Schuette, Wilhelm
PATENT ASSIGNEE(S):	Badische Anilin- & Soda-Fabrik AG
SOURCE:	Ger., 3 pp.
	CODEN: GWXXAW
DOCUMENT TYPE:	Patent
LANGUAGE:	German
FAMILY ACC. NUM. COUNT:	1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1669728	A	19700924	DE 1967-B94973	19671017
DE 1669728	B	19711230		

PRIORITY APPLN. INFO.:   DE 1967-B94973   A 19671017
IT 23918-41-4
    RL: PEP (Physical, engineering or chemical process); PROC (Process)
        (heat stabilizers, for polyoxymethylenes)
RN 23918-41-4 CAPLUS
CN Propanamide, 3,3',3'',3'''-(1,2-ethanediyldinitrilo)tetrakis[2-hydroxy-
    (9CI) (CA INDEX NAME)
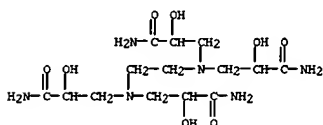
AB Use of 0.1-0.2% nitrilotris(lactamide) or ethylenediaminetetrakis(lactamid
    e) and 0.2-0.4% 2,2'-methylenebis(4-methyl - 6-tert-butylphenol) (I)
    antioxidant in degassed melts of 97:3 trioxane-1,3-dioxolane copolymer
    containing NaF gave 0.54-0.9% weight loss and no discoloration after
heating 2 hr
    at 222° compared with use of I and nitrilotris(propionamide) or
    dicyandiamide, which gave 0.95-1.93% weight losses, brown or yellow-brown
    discolorations, and (or) deposits in the mold at 220-30°.

ACCESSION NUMBER:	1970:499607 CAPLUS
DOCUMENT NUMBER:	73:99607
TITLE:	Heat stabilization of polyacetals by addition of a β-aminolactamide
PATENT ASSIGNEE(S):	Badische Anilin- & Soda-Fabrik AG
SOURCE:	Fr., 8 pp.
	CODEN: FRXXAK
DOCUMENT TYPE:	Patent
LANGUAGE:	French
FAMILY ACC. NUM. COUNT:	1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1584931		19700102	FR	
DE 1669727			DE	
GB 1234057			GB	
US 3607831		19710000	US	

PRIORITY APPLN. INFO.:   DE   19671017
IT 23918-41-4
    RL: USES (Uses)
        (stabilizers, for trioxane copolymers)
RN 23918-41-4 CAPLUS
CN Propanamide, 3,3',3'',3'''-(1,2-ethanediyldinitrilo)tetrakis[2-hydroxy-
    (9CI) (CA INDEX NAME)
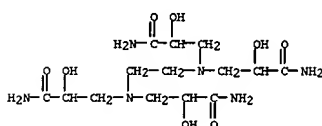
GI For diagram(s), see printed CA Issue.
AB β-Carbamoyl-β-hydroxyethylamines, useful for forming complexes
    with Fe(III) and, to a less extent, with Ni, Co Fe(II), Cr(III), or Al,
    were prepared by treating glycidamide I (R = H, CH2OH, or CH 2OMe) with NH3,
    N2H4, H2NOH, H2N(CH2)2NH2, H2NCHMeCH2NH2, H2N(CH2)3NH2, H2N(CH2)6NH2,
    H2N(CH2CH2NH)2H, H2N(CH2CH2NH)3H, or polyethylenimine. The following
    HnN[CH2CH(OH)CONHR]3-n were prepared (n, % yield, R, and m.p. given): 0,
    86, H, 164°; 0, 76, CH2OH, oil; 1, 82, H, 193°; 1, 77,
    CH2OH, oil. The following [RNHCOCH(OH)CH2]2NR1N[CH2CH(OH)CONHR]2 were
    prepared (R1, R, % yield, and m.p. given): CH2CH2, H, 92, 201°;
    CHMeCH2, H, 81, oil; (CH2)3, H, 78, oil; CH2CH2, CH2 oH, 84, oil; CH2CH2,
    CH2OMe, 91, oil; (CH2)6, H, 91, oil; (CH2)6, CH2OH, 86, oil. Also prepared
    were [H2NCOCH(OH)CH2]2NN[CH2CH(OH)CONH2]2 (94%, oil), HON-
    [CH2CH(OH)CONH2]2 (80%, oil); HOCH2CH2N[CH2CH(OH)CONH2]2 (89%, oil),
    [-N[CH2CH(OH)CONH2]CH2CH2-]n (polymer) (95%, m. 60°);
    [H2NCOCH(OH)CH2]2N[CH2CH2NCH2CH(OH)CONH]nH, where n is 2 (88%, m.
    52°) and 3 (90%, m. 48°).

ACCESSION NUMBER:	1970:22758 CAPLUS
DOCUMENT NUMBER:	72:22758
TITLE:	β-Carbamoyl-β-hydroxyethylamines as masking agents in the textile and paper industries
PATENT ASSIGNEE(S):	Badische Anilin- & Soda-Fabrik AG
SOURCE:	Fr., 6 pp.
	CODEN: FRXXAK
DOCUMENT TYPE:	Patent
LANGUAGE:	French
FAMILY ACC. NUM. COUNT:	1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1542198		19681011	FR	
GB 1195427			GB	
US 3538158		19700000	US	

PRIORITY APPLN. INFO.:   DE   19661104
IT 23918-41-4D, Lactamide, 3,3',3'',3'''-(ethylenedinitrilo)tetrakis-
    , iron complexes
    RL: USES (Uses)
        (as masking agents for paper)
RN 23918-41-4 CAPLUS
CN Propanamide, 3,3',3'',3'''-(1,2-ethanediyldinitrilo)tetrakis[2-hydroxy-
    (9CI) (CA INDEX NAME)
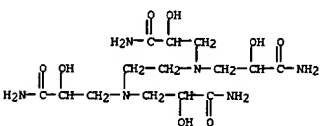
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FULL ESTIMATED COST                                        35.48       533.98

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)             SINCE FILE       TOTAL
                                                           ENTRY      SESSION
CA SUBSCRIBER PRICE                                        -5.11        -6.57
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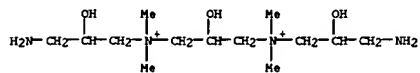*   *
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* effective March 20, 2005. A new display format, IDERL, is now   *
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*   *
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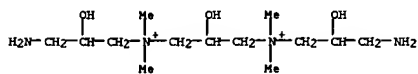Crossover limits have been increased. See HELP CROSSOVER for details.

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information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

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chain bonds :
1-2  1-11  1-12  2-3  3-4  4-5  5-6  11-17  12-13  13-14  14-15  15-16  15-18
18-19
exact/norm bonds :
1-2  1-11  1-12  14-15  15-18  18-19
exact bonds :
2-3  3-4  4-5  5-6  11-17  12-13  13-14  15-16


Match level :
1:CLASS  2:CLASS  3:CLASS  4:CLASS  5:CLASS  6:CLASS  11:CLASS  12:CLASS  13:CLASS
14:CLASS  15:CLASS  16:CLASS  17:CLASS  18:CLASS  19:CLASS
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L14   STRUCTURE UPLOADED

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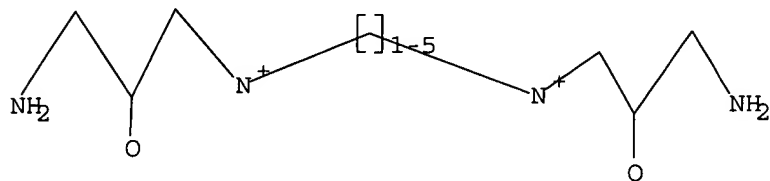
Structure attributes must be viewed using STN Express query preparation.

=> s l14 full
FULL SEARCH INITIATED 14:57:25 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 63729 TO ITERATE

100.0% PROCESSED   63729 ITERATIONS   2 ANSWERS
SEARCH TIME: 00.00.01

L15   2 SEA SSS FUL L14

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COST IN U.S. DOLLARS   SINCE FILE   TOTAL
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FULL ESTIMATED COST   162.19   696.17

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)   SINCE FILE   TOTAL
                                                     ENTRY   SESSION
CA SUBSCRIBER PRICE   0.00   -6.57

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FILE COVERS 1907 - 25 Apr 2005   VOL 142 ISS 18
FILE LAST UPDATED: 24 Apr 2005   (20050424/ED)

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   This file contains CAS Registry Numbers for easy and accurate
   substance identification.

=> s l15
L16   0 L15

=> fil reg
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
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FULL ESTIMATED COST   0.45   696.62

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)   SINCE FILE   TOTAL
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DICTIONARY FILE UPDATES:   24 APR 2005   HIGHEST RN 849094-71-9
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*                                                                 *
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* available and contains the CA role and document type information. *
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Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> d 115 1-2

RN   741631-75-4 REGISTRY
ED   Entered STN: 08 Sep 2004
CN   1,3-Propanediaminium, N,N'-bis(3-amino-2-hydroxypropyl)-2-hydroxy-
       N,N,N',N'-tetramethyl- (9CI) (CA INDEX NAME)
FS   3D CONCORD
MF   C13 H34 N4 O3
CI   COM
SR   CA

$$H_2N-CH_2-\overset{OH}{CH}-CH_2-\overset{Me}{\underset{Me}{N^+}}-CH_2-\overset{OH}{CH}-CH_2-\overset{Me}{\underset{Me}{N^+}}-CH_2-\overset{OH}{CH}-CH_2-NH_2$$

RN   93951-13-4 REGISTRY
ED   Entered STN: 31 Aug 1985
CN   1,3-Propanediaminium, N,N'-bis(3-amino-2-hydroxypropyl)-2-hydroxy-
       N,N,N',N'-tetramethyl-, dichloride, dihydrochloride (9CI) (CA INDEX NAME)
MF   C13 H34 N4 O3 . 2 Cl H . 2 Cl
SR   European Union (EU)
LC   STN Files: CHEMLIST
       Other Sources: EINECS**
          (**Enter CHEMLIST File for up-to-date regulatory information)
CRN   (741631-75-4)

$$H_2N-CH_2-\overset{OH}{CH}-CH_2-\overset{Me}{\underset{Me}{N^+}}-CH_2-\overset{OH}{CH}-CH_2-\overset{Me}{\underset{Me}{N^+}}-CH_2-\overset{OH}{CH}-CH_2-NH_2$$

●2 Cl⁻

●2 HCl

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=> FIL STNGUIDE
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                                                      ENTRY      SESSION
FULL ESTIMATED COST                                    4.54       701.16


DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE        TOTAL
                                                      ENTRY      SESSION
CA SUBSCRIBER PRICE                                    0.00        -6.57


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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr 22, 2005 (20050422/UP).


=> fil reg
COST IN U.S. DOLLARS                              SINCE FILE        TOTAL
                                                      ENTRY      SESSION
FULL ESTIMATED COST                                    0.06       701.22


DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE        TOTAL
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CA SUBSCRIBER PRICE                                    0.00        -6.57


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DICTIONARY FILE UPDATES:  24 APR 2005   HIGHEST RN 849094-71-9


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*********************************************************************
*                                                                  *
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* effective March 20, 2005.  A new display format, IDERL, is now   *
* available and contains the CA role and document type information. *
*                                                                  *
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Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
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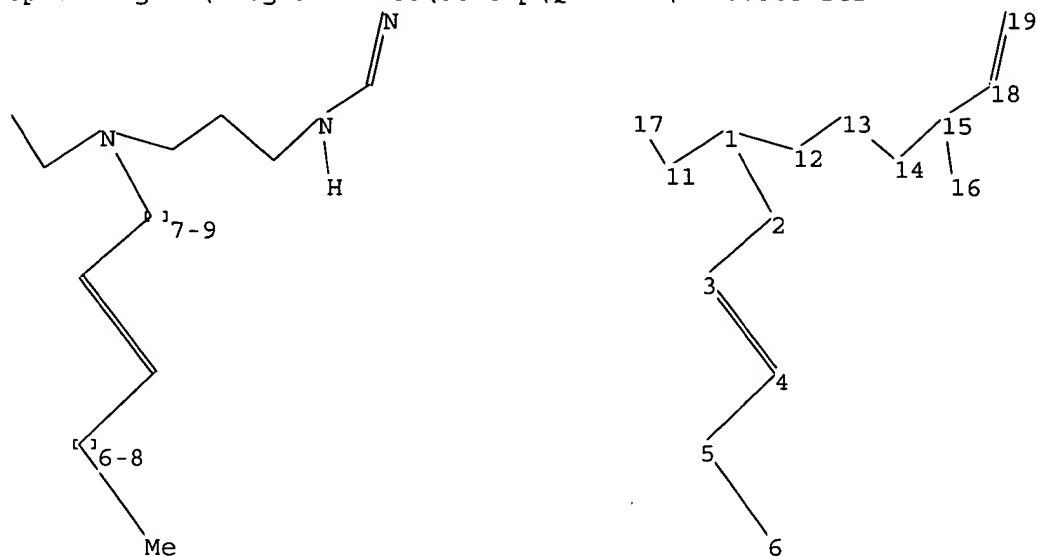


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1  2  3  4  5  6  11  12  13  14  15  16  17  18  19
chain bonds :
1-2  1-11  1-12  2-3  3-4  4-5  5-6  11-17  12-13  13-14  14-15  15-16  15-18
18-19
exact/norm bonds :
1-2  1-11  1-12  14-15  15-18  18-19
exact bonds :
2-3  3-4  4-5  5-6  11-17  12-13  13-14  15-16


Match level :
1:CLASS  2:CLASS  3:CLASS  4:CLASS  5:CLASS  6:CLASS  11:CLASS  12:CLASS  13:CLASS
14:CLASS  15:CLASS  16:CLASS  17:CLASS  18:CLASS  19:CLASS



L17       STRUCTURE UPLOADED

=> d query
L17               STR
```
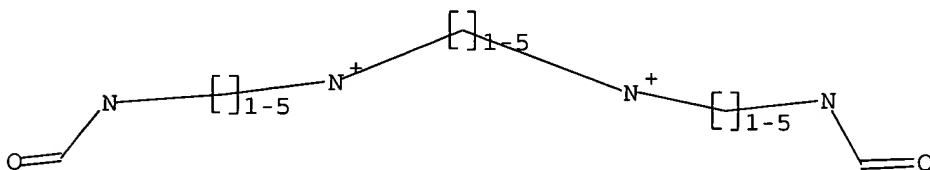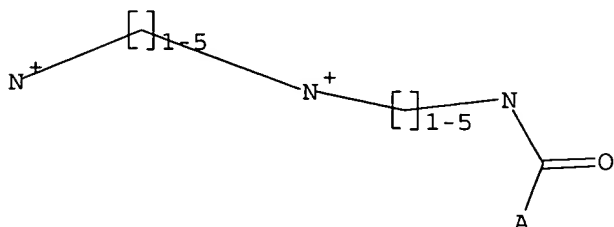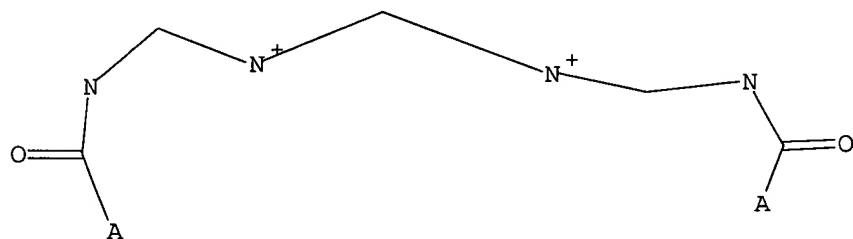


```
Structure attributes must be viewed using STN Express query preparation.
```

```
=> s 117
SAMPLE SEARCH INITIATED 15:01:38 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -  62612 TO ITERATE

   1.6% PROCESSED    1000 ITERATIONS                              0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **INCOMPLETE**
                        BATCH   **INCOMPLETE**
PROJECTED ITERATIONS:        EXCEEDS 1000000
PROJECTED ANSWERS:           EXCEEDS      0

L18            0 SEA SSS SAM L17

=>
Uploading C:\Program Files\Stnexp\Queries\09438365.str
```
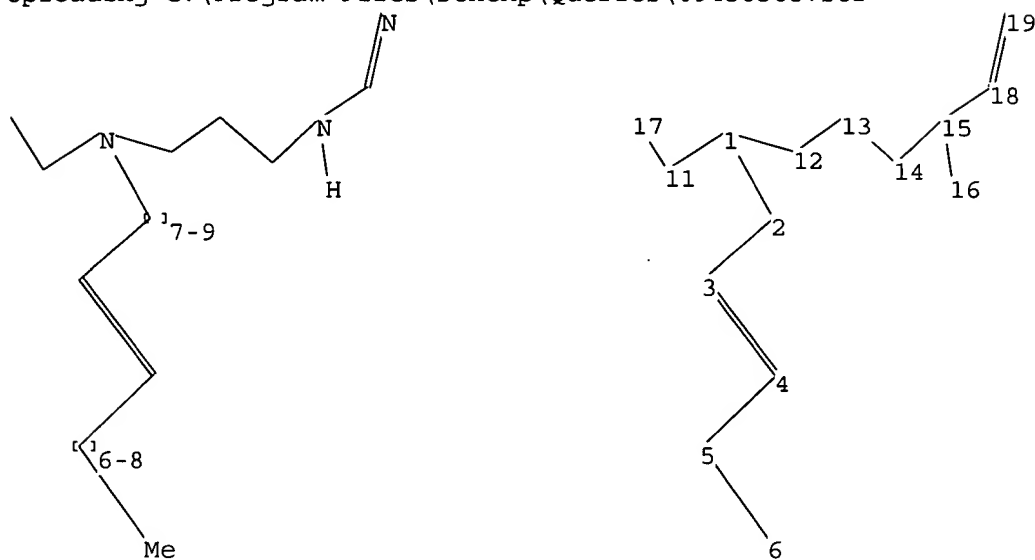


```
chain nodes :
1  2  3  4  5  6  11  12  13  14  15  16  17  18  19
chain bonds :
1-2  1-11  1-12  2-3  3-4  4-5  5-6  11-17  12-13  13-14  14-15  15-16  15-18
18-19
exact/norm bonds :
1-2  1-11  1-12  14-15  15-18  18-19
exact bonds :
2-3  3-4  4-5  5-6  11-17  12-13  13-14  15-16


Match level :
1:CLASS  2:CLASS  3:CLASS  4:CLASS  5:CLASS  6:CLASS  11:CLASS  12:CLASS  13:CLASS
14:CLASS  15:CLASS  16:CLASS  17:CLASS  18:CLASS  19:CLASS
```
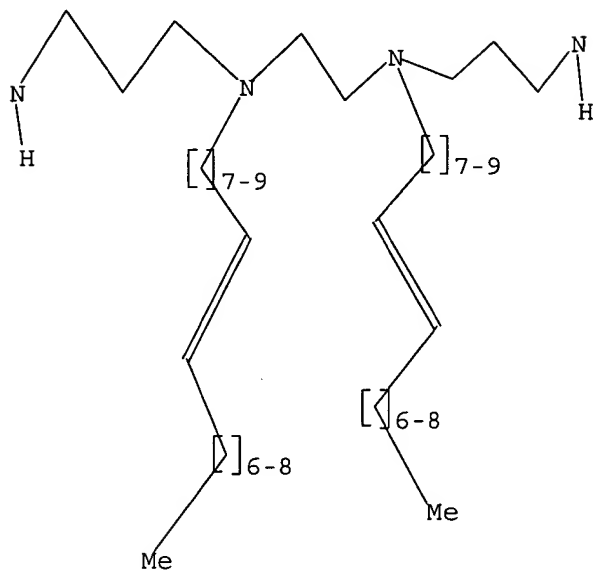
L19   STRUCTURE UPLOADED

=> d query
L19   STR
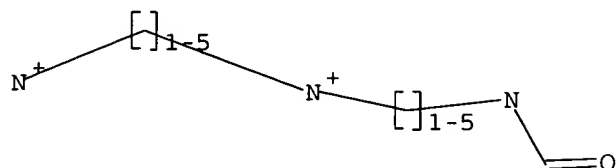
Structure attributes must be viewed using STN Express query preparation.

=> s l19
SAMPLE SEARCH INITIATED 15:02:18 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 86223 TO ITERATE

   1.2% PROCESSED   1000 ITERATIONS   1 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
                        BATCH   **INCOMPLETE**
PROJECTED ITERATIONS: EXCEEDS 1000000
PROJECTED ANSWERS: EXCEEDS   1167

L20   1 SEA SSS SAM L19

=>
Uploading C:\Program Files\Stnexp\Queries\09438365.str
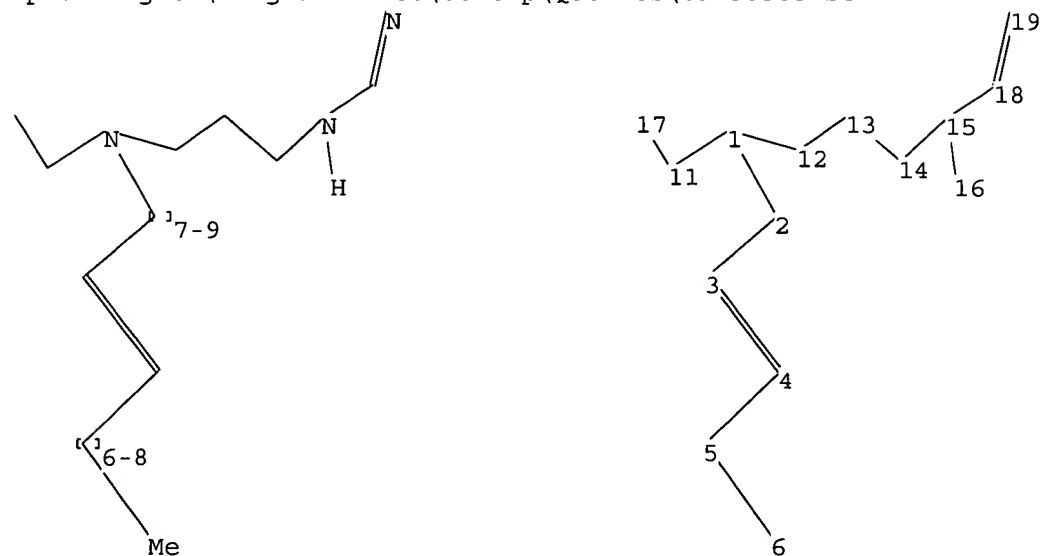
chain nodes :
1 2 3 4 5 6 11 12 13 14 15 16 17 18 19
chain bonds :
1-2 1-11 1-12 2-3 3-4 4-5 5-6 11-17 12-13 13-14 14-15 15-16 15-18
18-19

Page 24

exact/norm bonds :
1-2 1-11 1-12 14-15 15-18 18-19
exact bonds :
2-3 3-4 4-5 5-6 11-17 12-13 13-14 15-16

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 11:CLASS 12:CLASS 13:CLASS
14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS

L21   STRUCTURE UPLOADED

=> d query
L21   STR

Structure attributes must be viewed using STN Express query preparation.

=> s l21
SAMPLE SEARCH INITIATED 15:03:17 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   86218 TO ITERATE

   1.2% PROCESSED   1000 ITERATIONS   0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
                         BATCH   **INCOMPLETE**
PROJECTED ITERATIONS: EXCEEDS 1000000
PROJECTED ANSWERS: EXCEEDS   0

L22   0 SEA SSS SAM L21

=>
Uploading C:\Program Files\Stnexp\Queries\09438365.str
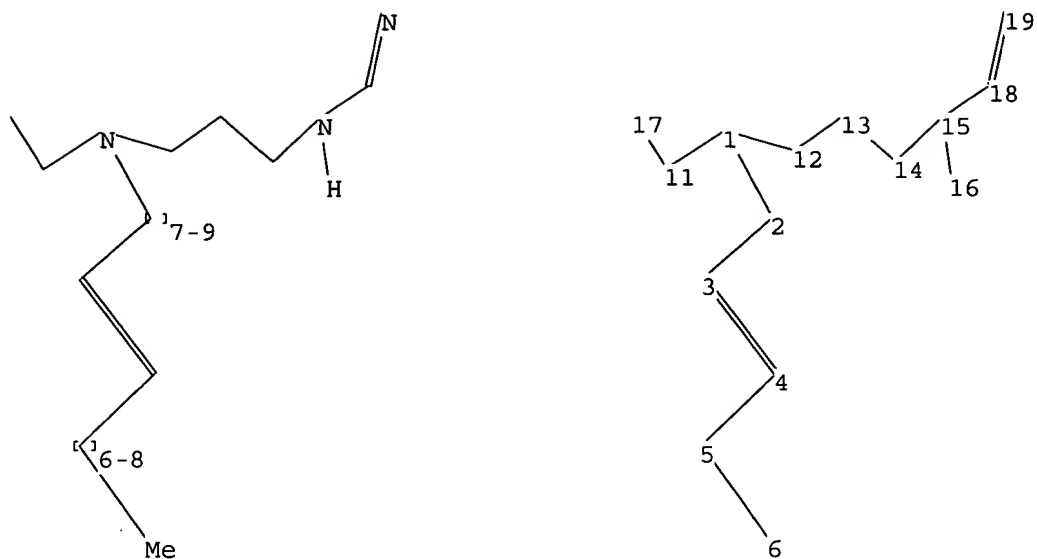
chain nodes :
1 2 3 4 5 6 11 12 13 14 15 16 17 18 19
chain bonds :
1-2 1-11 1-12 2-3 3-4 4-5 5-6 11-17 12-13 13-14 14-15 15-16 15-18
18-19
exact/norm bonds :
1-2 1-11 1-12 14-15 15-18 18-19
exact bonds :
2-3 3-4 4-5 5-6 11-17 12-13 13-14 15-16

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 11:CLASS 12:CLASS 13:CLASS
14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS

L23   STRUCTURE UPLOADED

=> d query
L23   STR

Structure attributes must be viewed using STN Express query preparation.

```
=> s 123
SAMPLE SEARCH INITIATED 15:04:26 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     68 TO ITERATE

100.0% PROCESSED      68 ITERATIONS                        0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        866 TO       1854
PROJECTED ANSWERS:             0 TO          0

L24              0 SEA SSS SAM L23

=> s 123 full
FULL SEARCH INITIATED 15:04:30 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   1654 TO ITERATE

100.0% PROCESSED    1654 ITERATIONS                        0 ANSWERS
SEARCH TIME: 00.00.01

L25              0 SEA SSS FUL L23

=>
Uploading C:\Program Files\Stnexp\Queries\09438365.str
```
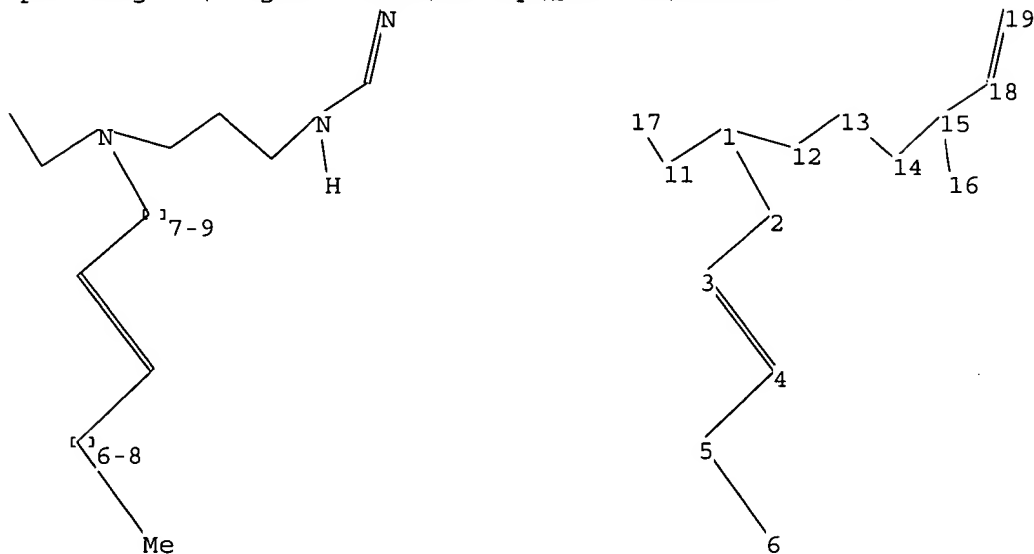


```
chain nodes :
1  2  3  4  5  6  11  12  13  14  15  16  17  18  19
chain bonds :
1-2  1-11  1-12  2-3  3-4  4-5  5-6  11-17  12-13  13-14  14-15  15-16  15-18
18-19
exact/norm bonds :
1-2  1-11  1-12  14-15  15-18  18-19
exact bonds :
2-3  3-4  4-5  5-6  11-17  12-13  13-14  15-16
```

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 11:CLASS 12:CLASS 13:CLASS
14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS

L26   STRUCTURE UPLOADED

=> d query
L26   STR

Structure attributes must be viewed using STN Express query preparation.

=> s l26
SAMPLE SEARCH INITIATED 15:08:28 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   17 TO ITERATE

100.0% PROCESSED   17 ITERATIONS   1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS: 93 TO   587
PROJECTED ANSWERS: 1 TO   80

L27   1 SEA SSS SAM L26

=> s l26 full
FULL SEARCH INITIATED 15:08:34 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   257 TO ITERATE

100.0% PROCESSED   257 ITERATIONS   4 ANSWERS
SEARCH TIME: 00.00.01

```
L28            4 SEA SSS FUL L26

=> fil caplus
COST IN U.S. DOLLARS                              SINCE FILE       TOTAL
                                                      ENTRY     SESSION
FULL ESTIMATED COST                                  328.68     1029.90


DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)       SINCE FILE       TOTAL
                                                      ENTRY     SESSION
CA SUBSCRIBER PRICE                                    0.00       -6.57
```

```
FILE COVERS 1907 - 25 Apr 2005  VOL 142 ISS 18
FILE LAST UPDATED: 24 Apr 2005   (20050424/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

   This file contains CAS Registry Numbers for easy and accurate
   substance identification.

=> s 128
L29            2 L28

=> d 129 1-2 abs ibib hitstr
```

AB   Synthesis and activity of transfection reagents (I) [Q = N, O, S; L =
      (un)substituted alkyl, ether, polyether, amide, polyamide, ester, sulfide,
      urea, thiourea, guanidyl, carbamoyl, carbonate, phosphate, sulfate,
      sulfoxide, imine, carbonyl, secondary amine; R1-R6 independently =
      (un)substituted alkyl, alkenyl, aryl, ether; A1, A2 independently = CH2O,
      CH2S, CH2NH, CO, C=NH, CS, alkyl; X = physiol. acceptable anion; n =
      1-1000; q = number of pos. charge divided by valence of anion], cationic
      lipids capable of facilitating transport of biol. active agents or
      substances into cells, are disclosed. Thus, I [R1,R4 = oleyl; R2,R5 =
      Me2N(CH2)3; R3,R6 = Me; A1,A2 = CH2; L = (CH2)4; X = I] (II) is prepared by
      reaction of bis-1,4-oleyl-1,4-butanediamine with acrylonitrile followed by
      reduction of nitrile to amine and quaternization of amine with Me iodide.
II
      shows an activity of 37.8 ng/βgal/cm2 in DNA delivery. Formulations
      containing I are given.
ACCESSION NUMBER: 2000:335366 CAPLUS
DOCUMENT NUMBER: 132:334312
TITLE: synthesis and activity of transfection reagents for
                        transport of biol. active agents or substances into
                        cells
INVENTOR(S):   Chu, Yongliang; Masoud, Malek; Gebeyehu, Gulilat
PATENT ASSIGNEE(S):   Life Technologies, Inc., USA
SOURCE: PCT Int. Appl., 130 pp.
                        CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

      PATENT NO.   KIND   DATE   APPLICATION NO.   DATE
      ---------------   ----   --------   -------------------- --------
      WO 2000027795   A1   20000518   WO 1999-US26825   19991112
         W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
             CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
             IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
             MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
             SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ,
             BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
             DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
             CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
      CA 2350882   AA   20000518   CA 1999-2350882   19991112

REFERENCE COUNT: 13   THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS
                                RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

      EP 1129064   A1   20010905   EP 1999-971794   19991112
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
      JP 2002529439   T2   20020910   JP 2000-580975   19991112
      NZ 512244   A   20031219   NZ 1999-512244   19991112
      AU 772847   B2   20040506   AU 2000-14776   19991112
PRIORITY APPLN. INFO.:   US 1998-108117P   P 19981112
                                            WO 1999-US26825   W 19991112
OTHER SOURCE(S):   MARPAT 132:334312
IT   268539-54-4P 268539-55-5P
      RL: BAC (Biological activity or effector, except adverse); BSU (Biological
      study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
      BIOL (Biological study); PREP (Preparation); USES (Uses)
         (synthesis and activity of transfection reagents for transport of biol.
         active agents or substances into cells)
RN   268539-54-4 CAPLUS
CN   Pentanamide, N,N'-[1,2-ethanediylbis[[(9Z)-9-octadecenylimino]-3,1-
      propanediyl]]bis[2,5-bis[(3-aminopropyl)amino]- (9CI) (CA INDEX NAME)

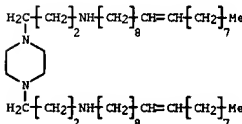Double bond geometry as shown.
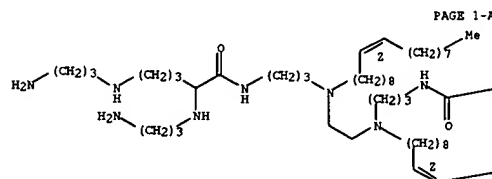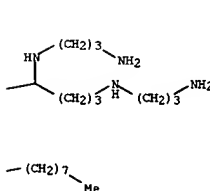
PAGE 1-A

PAGE 1-B

RN   268539-55-5 CAPLUS
CN   1,3-Propanediamine, N,N''-1,2-ethanediylbis[N-(9Z)-9-octadecenyl- (9CI)
      (CA INDEX NAME)

Double bond geometry as shown.

AB   Transfection of a cell is accomplished using with a polynucleotide mixed
      with one or more amphipathic compds. and a DNA-binding protein, especially a
      histone such as histones H1, H2A, or H2B. The DNA-binding protein may be
      fused to a nuclear localization signal peptide. Exemplary and preferred
      amphipathic compds. are cationic amphipathic compds. I was synthesized in
      70% yield by reacting 1,4-bis(3-aminopropyl)piperazine with oleyol
      chloride and reducing the intermediate with LiAlH4 in THF. Histone H1 was
      found to increase the transfection efficiency of I 16.1-fold. I/H1
      reagent has a greater transfection efficiency and less cellular toxicity
      then LipofectAmine, which is useful in gene therapy.
ACCESSION NUMBER: 1998:263206 CAPLUS
DOCUMENT NUMBER: 128:266964
TITLE: Process of transfecting a cell with a polynucleotide
                        mixed with an amphipathic compound and a DNA-binding
                        protein
INVENTOR(S):   Wolff, Jon A.; Fritz, Jeffery; Budker, Vladimir;
                        Hagstrom, James
PATENT ASSIGNEE(S):   Mirus Corporation, USA
SOURCE: U.S., 16 pp.
                        CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

      PATENT NO.   KIND   DATE   APPLICATION NO.   DATE
      ---------------   ----   --------   -------------------- --------
      US 5744335   A   19980428   US 1995-530598   19950919
      US 6180784   B1   20010130   US 1998-20566   19980117
PRIORITY APPLN. INFO.:   US 1995-530598   A3 19950919
OTHER SOURCE(S):   MARPAT 128:266964
IT   205596-14-1P
      RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
      (Reactant or reagent)
         (amphipathic compds. for transfecting cells and their syntheses)
RN   205596-14-1 CAPLUS
CN   9-Octadecenamide, N,N'-1,2-ethanediylbis[N-[3-[(1-oxo-9-
      octadecenyl)amino]propyl]-, (all-Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.
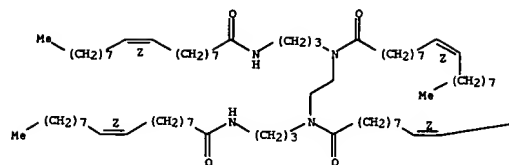
PAGE 1-B
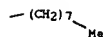
IT   205596-06-1P
      RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); THU
      (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
      (Uses)
          (cell transfection with polynucleotide mixed with amphipathic compound
          and DNA-binding protein)
RN   205596-06-1 CAPLUS
CN   1,3-Propanediamine, N,N''-1,2-ethanediylbis[N,N'-di-9-octadecenyl-,
      (all-Z)- (9CI)   (CA INDEX NAME)

Double bond geometry as shown.
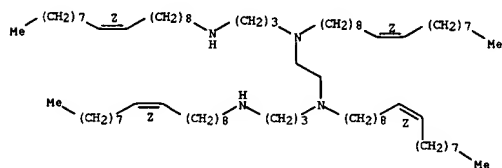
REFERENCE COUNT: 25   THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS

```
=>    fil reg
```

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	11.23	1041.13

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.46	-8.03

FILE 'REGISTRY' ENTERED AT 15:10:19 ON 25 APR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 24 APR 2005   HIGHEST RN 849094-71-9
DICTIONARY FILE UPDATES: 24 APR 2005   HIGHEST RN 849094-71-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

    Please note that search-term pricing does apply when
    conducting SmartSELECT searches.

```
***********************************************************************
*                                                                     *
* The CA roles and document type information have been removed from   *
* the IDE default display format and the ED field has been added,     *
* effective March 20, 2005.  A new display format, IDERL, is now      *
* available and contains the CA role and document type information.   *
*                                                                     *
***********************************************************************
```

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

```
=>
```
Uploading C:\Program Files\Stnexp\Queries\09438365.str

```
chain nodes :
1  2  3  4  5  6  11  12  13  14  15  16  17  18  19
chain bonds :
1-2  1-11  1-12  2-3  3-4  4-5  5-6  11-17  12-13  13-14  14-15  15-16  15-18
18-19
exact/norm bonds :
1-2  1-11  1-12  14-15  15-18  18-19
exact bonds :
2-3  3-4  4-5  5-6  11-17  12-13  13-14  15-16


Match level :
1:CLASS   2:CLASS   3:CLASS   4:CLASS   5:CLASS   6:CLASS   11:CLASS   12:CLASS   13:CLASS
14:CLASS   15:CLASS   16:CLASS   17:CLASS   18:CLASS   19:CLASS




L30      STRUCTURE UPLOADED

=>  d query
L30                STR
```
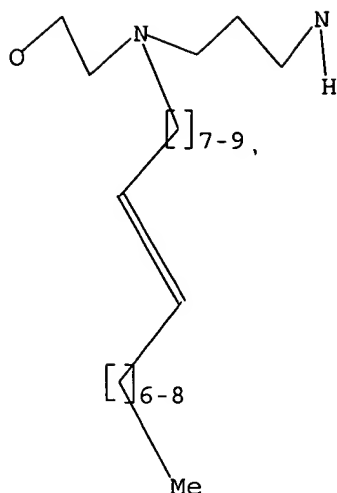
Structure attributes must be viewed using STN Express query preparation.


```
=> s 130
SAMPLE SEARCH INITIATED 15:22:13 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     62 TO ITERATE

100.0% PROCESSED     62 ITERATIONS                        1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         768 TO      1712
PROJECTED ANSWERS:              1 TO        80

L31            1 SEA SSS SAM L30

=> s 130 full
FULL SEARCH INITIATED 15:22:17 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   1299 TO ITERATE

100.0% PROCESSED   1299 ITERATIONS                       11 ANSWERS
SEARCH TIME: 00.00.01

L32           11 SEA SSS FUL L30

=> fil caplus
COST IN U.S. DOLLARS                    SINCE FILE      TOTAL
                                          ENTRY        SESSION
FULL ESTIMATED COST                      169.50       1210.63

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  SINCE FILE      TOTAL
                                          ENTRY        SESSION
CA SUBSCRIBER PRICE                        0.00         -8.03

FILE 'CAPLUS' ENTERED AT 15:22:20 ON 25 APR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
```

FILE COVERS 1907 - 25 Apr 2005 VOL 142 ISS 18
FILE LAST UPDATED: 24 Apr 2005 (20050424/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.

=> s 132
L33   4 L32

=> d 133 1-4 abs ibib hitstr

AB Synthesis and activity of transfection reagents (I) [Q = N, O, S; L =
(un)substituted alkyl, ether, polyether, amide, polyamide, ester, sulfide,
urea, thiourea, guanidyl, carbamoyl, carbonate, phosphate, sulfate,
sulfoxide, imine, carbonyl, secondary amine; R1-R6 independently =
(un)substituted alkyl, alkenyl, aryl, ether; A1, A2 independently = CH2O,
CH2S, CH2NH, CO, C=NH, CS, alkyl; X = physiol. acceptable anion; n =
1-1000; q = number of pos. charge divided by valence of anion], cationic
lipids capable of facilitating transport of biol. active agents or
substances into cells, are disclosed. Thus, I [R1,R4 = oleyl; R2,R5 =
Me2N(CH2)3; R3,R6 = Me; A1,A2 = CH2; L = (CH2)4; X = I] (II) is prepared by
reaction of bis-1,4-oleyl-1,4-butandiamine with acrylonitrile followed by
reduction of nitrile to amine and quaternization of amine with Me iodide.
II
shows an activity of 37.8 ng/βgal/cm2 in DNA delivery. Formulations
containing I are given.

ACCESSION NUMBER: 2000:335366 CAPLUS
DOCUMENT NUMBER: 132:334312
TITLE: synthesis and activity of transfection reagents for
                         transport of biol. active agents or substances into
                         cells
INVENTOR(S):   Chu, Yongliang; Masoud, Malek; Gebeyehu, Gulilat
PATENT ASSIGNEE(S):   Life Technologies, Inc., USA
SOURCE: PCT Int. Appl., 130 pp.
                         CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000027795	A1	20000518	WO 1999-US26825	19991112
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,				
CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,				
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,				
MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,				
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ,				
BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,				
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,				
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2350882	AA	20000518	CA 1999-2350882	19991112

PAGE 1-B

RN 268539-58-8 CAPLUS
CN Pentanamide, N,N'-[4,13-di-(9Z)-9-octadecenyl-7,10-dioxa-4,13-
    diazahexadecane-1,16-diyl]bis[2,5-bis[(3-aminopropyl)amino]- (9CI) (CA
    INDEX NAME)

Double bond geometry as shown.

PAGE 1-A

PAGE 1-B

RN 268539-60-2 CAPLUS
CN 9,12-Dioxa-2,6,15,19-tetraazaeicosanediimidamide, 6,15-di-(9Z)-9-
    octadecenyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

EP 1129064	A1	20010905	EP 1999-971794	19991112
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
IE, SI, LT, LV, FI, RO				
JP 2002529439	T2	20020910	JP 2000-580975	19991112
NZ 512244	A	20031219	NZ 1999-512244	19991112
AU 772847	B2	20040506	AU 2000-14776	19991112

PRIORITY APPLN. INFO.:   US 1998-108117P   P 19981112
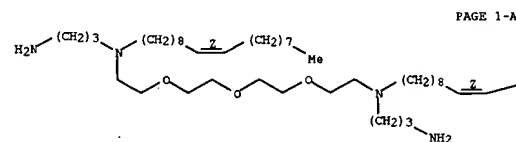   WO 1999-US26825   W 19991112

OTHER SOURCE(S):   MARPAT 132:334312
IT 268539-56-6P 268539-57-7P 268539-58-8P
    268539-60-2P
    RL: BAC (Biological activity or effector, except adverse); BSU (Biological
    study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
    BIOL (Biological study); PREP (Preparation); USES (Uses)
    (synthesis and activity of transfection reagents for transport of biol.
    active agents or substances into cells)
RN 268539-56-6 CAPLUS
CN 7,10-Dioxa-4,13-diazahexadecane-1,16-diamine, 4,13-di-(9Z)-9-octadecenyl-
    (9CI) (CA INDEX NAME)
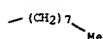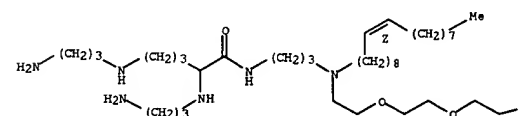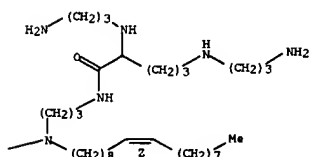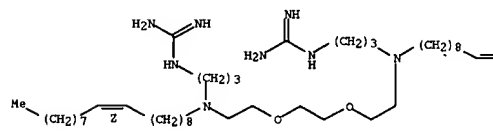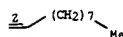
Double bond geometry as shown.

PAGE 1-A

PAGE 1-B

RN 268539-57-7 CAPLUS
CN 7,10,13-Trioxa-4,16-diazanonadecane-1,19-diamine, 4,16-di-(9Z)-9-
    octadecenyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-A

PAGE 1-A

PAGE 1-B

REFERENCE COUNT: 13   THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS
                                RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB ABCnDN[(CH2)nOVY][(CH2)oOXZ] [A = H, NR1R2, NR1(CH2)pNR3R4, (C:NH)NH2,
    pyridinyl; B, D = bond, C1-6 alkylene, iminoalkylene; C = piperidinediyl,
    piperazinediyl; W, X = bond, CO; Y, Z = (unsatd.) hydrocarbyl; R1-R5 = H,
    alkyl; m = 0-2; n, o = 2-4; p = 2-6; with provisos], were prepared Thus,
    2-[(2-hydroxyethyl)-[1-(3-diethylaminopropyl)piperidin-4-
    ylmethyl]amino]ethanol reacted with tetradecanoyl chloride to give 31%
    tetradecanoic acid 2-[(2-tetradecanoyloxyethyl)-[1-(3-
    diethylaminopropyl)piperidin-4-ylmethyl]amino]ethyl ester. The latter was
    3.2 times as effective as DOTAP for transfection of DNA into HeLa cells.
ACCESSION NUMBER: 1999:180856 CAPLUS
DOCUMENT NUMBER: 128:230250
TITLE: Preparation of (heterocyclic) amino alcohol
                          derivatives as agents for introducing bioactive
                          molecules into cells.
INVENTOR(S):   Friebe, Walter-Gunar; Dimoudis, Nikolaos; Michaelis,
                          Uwe; Knipp, Bernhard
PATENT ASSIGNEE(S):   Boehringer Mannheim G.m.b.H., Germany; Friebe,
                          Walter-Gunar; Dimoudis, Nikolaos; Michaelis, Uwe;
                          Knipp, Bernhard
SOURCE: PCT Int. Appl., 71 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

      PATENT NO.   KIND   DATE   APPLICATION NO.   DATE
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      WO 9811082   A1   19980319   WO 1997-EP4944   19970910
          W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
              DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR,
              KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ,
              PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG,
              US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
          RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR,
              GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,
              GN, ML, MR, NE, SN, TD, TG
      DE 19637043   A1   19980319   DE 1996-19637043   19960912
      CA 2265765   AA   19980319   CA 1997-2265765   19970910
      AU 9743841   A1   19980402   AU 1997-43841   19970910
      AU 741636   B2   20011206
      EP 927174   A1   19990707   EP 1997-942012   19970910
          R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI
      CN 1237161   A   19991201   CN 1997-199651   19970910
      CN 1087293   B   20020710
      BR 9712818   A   19991221   BR 1997-12818   19970910
      JP 2001504806   T2   20010410   JP 1998-513249   19970910
      ZA 9708170   A   19990311   ZA 1997-8170   19970911
      KR 2000036063   A   20000626   KR 1999-702068   19990311
      US 2003236266   A1   20031225   US 2002-59207   20020131
PRIORITY APPLN. INFO.:   DE 1996-19637043   A 19960912
                                            WO 1997-EP4944   W 19970910
                                            US 1999-147818   B1 19990512
OTHER SOURCE(S):   MARPAT 128:230250
IT   204639-32-7P
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
     BIOL (Biological study); PREP (Preparation); USES (Uses)
         (preparation of (heterocyclic) amino alc. derivs. as agents for
introducing

---

     bioactive mols. into cells)
RN   204639-32-7 CAPLUS
CN   9-Octadecenoic acid, 2-[[3-[(3-aminopropyl)amino]propyl][2-[(1-oxo-9-
     octadecenyl)oxy]ethyl]amino]-, ethyl ester, monohydrochloride, (Z,Z)-
     (9CI) (CA INDEX NAME)

Double bond geometry as shown.

● HCl
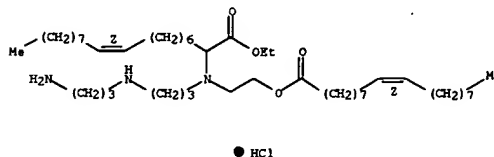
REFERENCE COUNT: 19   THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS
                                    RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB The title compds. are useful as emulsifying agents and as fat-liquoring or
    softening agents for leather, paper, and textiles. Inter-mediates
    RNHCH2CH(OH)CONH2 (I) and RN[CH2CH(OH)-CONH2]2 (II) were prepared by
    reacting 1 or 2 moles glycidamide with 1 mole of amine RNH2 in 25 aqueous,
aqueous
    methanolic, or methanolic solution at 50-60° during 1-2 hr.
    Quaternization of I and II was carried out by treating with an appropriate
    halide in H2O, aqueous methanolic or methanolic solution at 30-50° for 2-3
    hr then at 50° for 2-3 hr. Aqueous solns. containing 0.3 g/l.
    [C18H39-NMe[CH2CH(OH)CONH2]2]+MeSO4- were used to treat cot-ton and
    polycaprolactam fabrics giving material with a soft pleasant hand and
    hydrophilic in character.
ACCESSION NUMBER: 1971:87345 CAPLUS
DOCUMENT NUMBER: 74:87345
TITLE: (β-Carbamyl-β-hydroxyethyl)alkylammonium
                          salts
PATENT ASSIGNEE(S):   Badische Anilin- & Soda-Fabrik AG
SOURCE: Brit., 12 pp.
                          CODEN: BRXXAA
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

      PATENT NO.   KIND   DATE   APPLICATION NO.   DATE
      ---------------   ----   --------   --------------------   --------
      GB 1211040   19701104   GB
      FR 1592740   FR
      US 3632623   19720000   US
PRIORITY APPLN. INFO.:   DE   19671121
IT   32671-73-1P 32671-74-2P
     RL: SPN (Synthetic preparation); PREP (Preparation)
         (preparation of)
RN   32671-73-1 CAPLUS
CN   Lactamide, 3,3'-(9-octadecenylimino)bis-, (Z)- (8CI) (CA INDEX NAME)

Double bond geometry as shown.

RN   32671-74-2 CAPLUS
CN   Ammonium, bis(2-carbamoyl-2-hydroxyethyl)methyl-9-octadecenyl-, methyl
     sulfate, (Z)- (8CI) (CA INDEX NAME)

     CM   1

     CRN 48077-37-8
     CMF C25 H50 N3 O4

     CM   2

     CRN 21228-90-0
     CMF C H3 O4 S

Me—O—SO3-

AB   Bituminous emulsions for road building are described which break apart
      quickly. These neutral or slightly acid cationic aqueous bituminous
emulsions
      are prepared with N-alkylpropylenediamine salts as emulsifiers. They
      contain 20-80% bitumen, 0.1-2% emulsifier C8-22H7-45N+H-[(CH2CH2O)1-
      4H](CH2)3NH3X2-, while the rest is water. The pH is 6.5-7.0. The diamine
      is prepared by letting a β-cyano-ethylalkylamine react with 1-4 moles
      ethylene oxide to yield a polyoxyethylenated β-cyanoethylalkylamine.
      The latter is catalytically hydrogenated to give the diamine. Thus, 35%
      water and 0.1% N-oleyl-N-(hydroxyethyl)-1,3-propylenediamine yielded an
      aqueous solution of an emulsifier which subsequently was mixed with 65%
asphalt
      to result in an emulsion which broke quickly.
ACCESSION NUMBER: 1969:423534 CAPLUS
DOCUMENT NUMBER: 71:23534
TITLE: Aqueous bituminous emulsions
INVENTOR(S):   Reck, Richard A.; Stalioraitis, Joseph S.; Dybalski,
                           Jack N.
PATENT ASSIGNEE(S):   Armour and Co.
SOURCE: Ger., 4 pp.
                           CODEN: GWXXAW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

        PATENT NO.   KIND   DATE   APPLICATION NO.   DATE
        ---------------   ----   --------   --------------------   --------
        DE 1292572   19690410
PRIORITY APPLN. INFO.:   US   19640511
IT   26351-33-7
      RL: USES (Uses)
         (pavement containing bitumens and, cationic)
RN   26351-33-7 CAPLUS
CN   Ethanol, 2-[(3-aminopropyl)-9-octadecenylamino]- (8CI)   (CA INDEX NAME)

Double bond geometry as shown.

Page 38
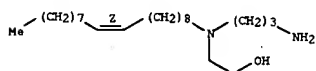
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=> fil reg
COST IN U.S. DOLLARS                              SINCE FILE       TOTAL
                                                     ENTRY       SESSION
FULL ESTIMATED COST                                  21.56      1232.19

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE       TOTAL
                                                     ENTRY       SESSION
CA SUBSCRIBER PRICE                                  -2.92       -10.95
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provided by InfoChem.

STRUCTURE FILE UPDATES: 24 APR 2005   HIGHEST RN 849094-71-9
DICTIONARY FILE UPDATES: 24 APR 2005   HIGHEST RN 849094-71-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

    Please note that search-term pricing does apply when
    conducting SmartSELECT searches.

****
*   *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*   *
****

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\09438365.str

chain nodes :
1   2   3   4   5   6   11   12   13   14   15   16   17   18   19
chain bonds :
1-2   1-11   1-12   2-3   3-4   4-5   5-6   11-17   12-13   13-14   14-15   15-16   15-18
18-19
exact/norm bonds :
1-2   1-11   1-12   14-15   15-18   18-19
exact bonds :
2-3   3-4   4-5   5-6   11-17   12-13   13-14   15-16
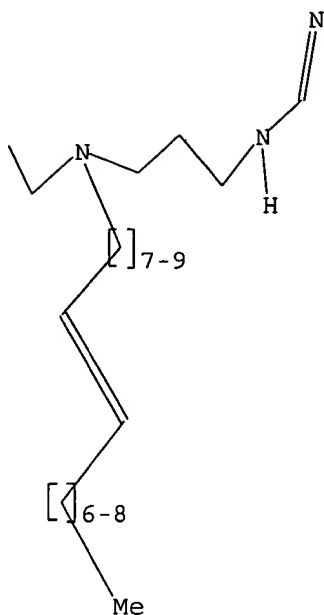

Match level :
1:CLASS   2:CLASS   3:CLASS   4:CLASS   5:CLASS   6:CLASS   11:CLASS   12:CLASS   13:CLASS
14:CLASS   15:CLASS   16:CLASS   17:CLASS   18:CLASS   19:CLASS

L34   STRUCTURE UPLOADED

=> d query
L34   STR

Structure attributes must be viewed using STN Express query preparation.

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=> s 134
SAMPLE SEARCH INITIATED 15:25:29 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     135 TO ITERATE

100.0% PROCESSED     135 ITERATIONS                          0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:   ONLINE   **COMPLETE**
                         BATCH    **COMPLETE**
PROJECTED ITERATIONS:         2003 TO      3397
PROJECTED ANSWERS:               0 TO         0

L35           0 SEA SSS SAM L34

=> s 134 full
FULL SEARCH INITIATED 15:25:33 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   2564 TO ITERATE

100.0% PROCESSED    2564 ITERATIONS                         19 ANSWERS
SEARCH TIME: 00.00.01

L36          19 SEA SSS FUL L34

=> fil caplus
COST IN U.S. DOLLARS                       SINCE FILE      TOTAL
                                             ENTRY       SESSION
FULL ESTIMATED COST                          161.33      1393.52

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  SINCE FILE      TOTAL
                                             ENTRY       SESSION
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Page 41

FILE 'CAPLUS' ENTERED AT 15:25:36 ON 25 APR 2005
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FILE COVERS 1907 - 25 Apr 2005 VOL 142 ISS 18
FILE LAST UPDATED: 24 Apr 2005 (20050424/ED)

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  This file contains CAS Registry Numbers for easy and accurate
  substance identification.

=> s 136
L37   3 L36

=> d 137 1-3 abs ibib hitstr

AB   Synthesis and activity of transfection reagents (I) [Q = N, O, S; L =
      (un)substituted alkyl, ether, polyether, amide, polyamide, ester, sulfide,
      urea, thiourea, guanidyl, carbamoyl, carbonate, phosphate, sulfate,
      sulfoxide, imine, carbonyl, secondary amine; R1-R6 independently =
      (un)substituted alkyl, alkenyl, aryl, ether; A1, A2 independently = CH2O,
      CH2S, CH2NH, CO, C=NH, CS, alkyl; X = physiol. acceptable anion; n =
      1-1000; q = number of pos. charge divided by valence of anion], cationic
      lipids capable of facilitating transport of biol. active agents or
      substances into cells, are disclosed. Thus, I (R1,R4 = oleyl; R2,R5 =
      Me2N(CH2)3; R3,R6 = Me; A1,A2 = CH2; L = (CH2)4; X = I] (II) is prepared by
      reaction of bis-1,4-oleyl-1,4-butandiamine with acrylonitrile followed by
      reduction of nitrile to amine and quaternization of amine with Me iodide.
II
      shows an activity of 37.8 ng/βgal/cm2 in DNA delivery. Formulations
      containing I are given.

ACCESSION NUMBER: 2000:335366 CAPLUS
DOCUMENT NUMBER: 132:334312
TITLE: synthesis and activity of transfection reagents for
                       transport of biol. active agents or substances into
                       cells
INVENTOR(S):   Chu, Yongliang; Masoud, Malek; Gebeyehu, Gulilat
PATENT ASSIGNEE(S):   Life Technologies, Inc., USA
SOURCE: PCT Int. Appl., 130 pp.
                       CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000027795	A1	20000518	WO 1999-US26825	19991112
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,			
	CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,			
	IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,			
	MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,			
	SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ,			
	BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,			
	DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,			
	CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2350882	AA	20000518	CA 1999-2350882	19991112

      RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
          (Reactant or reagent)
          (synthesis and activity of transfection reagents for transport of biol.
          active agents or substances into cells)
RN   268539-49-7 CAPLUS
CN   2,6,11,15-Tetraazahexadecanediimidamide, 4,13-dihydroxy-6,11-di-(9Z)-9-
      octadecenyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

REFERENCE COUNT: 13   THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS
                              RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

EP 1129064	A1	20010905	EP 1999-971794	19991112
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,			
	IE, SI, LT, LV, FI, RO			
JP 2002529439	T2	20020910	JP 2000-580975	19991112
NZ 512244	A	20031219	NZ 1999-512244	19991112
AU 772847	B2	20040506	AU 2000-14776	19991112

PRIORITY APPLN. INFO.:   US 1998-108117P   P 19981112
                                           WO 1999-US26825   W 19991112

OTHER SOURCE(S):   MARPAT 132:334312
IT   268539-59-9P 268539-60-2P
      RL: BAC (Biological activity or effector, except adverse); BSU (Biological
      study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
      BIOL (Biological study); PREP (Preparation); USES (Uses)
         (synthesis and activity of transfection reagents for transport of biol.
         active agents or substances into cells)
RN   268539-59-9 CAPLUS
CN   2,6,11,15-Tetraazahexadecanediimidamide, 6,11-di-(9Z)-9-octadecenyl- (9CI)
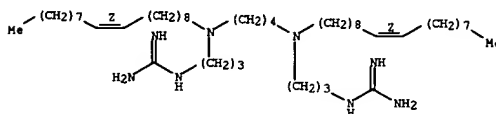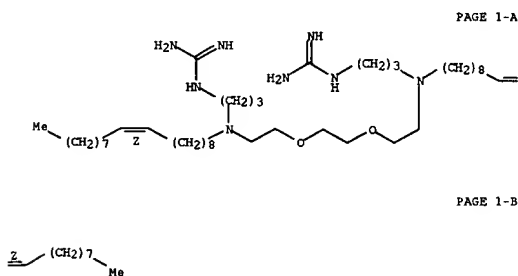   (CA INDEX NAME)

Double bond geometry as shown.

RN   268539-60-2 CAPLUS
CN   9,12-Dioxa-2,6,15,19-tetraazaeicosanediimidamide, 6,15-di-(9Z)-9-
   octadecenyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-A

PAGE 1-B

IT   268539-49-7P

AB   Cationic lipids, RR1NCO(CH2)mNHCOCH(NHR2)(CH2)nNHR3 [R, R1 = alkyl; R2, R3
      = H, acyl, alkyl, carboxamidine, aryl; m = 1 - 3; n = 2 - 5], were prepared
      as permeability enhancer mols. to increase membrane permeability and
      facilitate cellular uptake of neg. charged compds. Thus, JA 59312, i.e.
      (Z)-H2NC(:NH)NH(CH2)2CH(NH2)CONHCH2CON[(CH2)8CH:CH(CH2)7Me](CH2)15Me, was
      prepared in a multistep synthetic sequence starting from 1-bromohexadecane,
      oleylamine, N-(benzyloxycarbonyl)-glycine N-hydroxysuccinimide ester,
      2,4-bis((tert-butoxycarbonyl)amino)butyric acid, and 1H-Pyrazole-1-
      carboxamidine hydrochloride. The prepared compds. were tested for cellular
      transport and cytotoxicity.

ACCESSION NUMBER: 1999:96203 CAPLUS
DOCUMENT NUMBER: 130:168544
TITLE: Preparation of novel compositions for the delivery of
                      negatively charged molecules
INVENTOR(S):   Beigelman, Leonid; Matulic-Adamic, Jasenka; Karpeisky,
                      Alex; Haeberli, Peter; Sweedler, David; Reynolds,
                      Mark; Chaudhary, Nilabh; Min, John
PATENT ASSIGNEE(S):   Ribozyme Pharmaceuticals, Incorporated, USA
SOURCE: PCT Int. Appl., 90 pp.
                      CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9905094 A1		19990204	WO 1998-US15129	19980722
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK,			
	EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK,			
	LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU,			
	SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW,			
	AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB,			
	GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG			

PRIORITY APPLN. INFO.:   US 1997-53517   19970723
                                           US 1998-72967   19980129

OTHER SOURCE(S):   MARPAT 130:168544
IT   220458-60-6P, AK 524-73
      RL: BAC (Biological activity or effector, except adverse); BSU (Biological
      study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU
      (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT
      (Reactant or reagent); USES (Uses)
         (preparation of novel compns. for the delivery of neg. charged mols.)
RN   220458-60-6 CAPLUS
CN   Propanamide, 3-[(aminoiminomethyl)amino]-N-hexadecyl-N-(9Z)-9-octadecenyl-
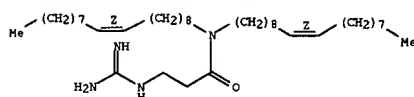   (9CI) (CA INDEX NAME)

Double bond geometry as shown.
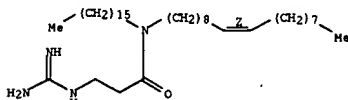
REFERENCE COUNT: 2   THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS

AB   The title compds. R1R2NC(O)AX [R1, R2 = C10 - C26 hydrocarbyl; A =
      hydrocarbylene (further details on said hydrocarbylene are given); X =
      NHC(:NR3)NHR4, etc.; R3, R4 = hydrocarbyl, etc.; a proviso is given] are
      prepared In an in vivo gene transfer test, the transfection efficiency
      obtained with 2-guanidino-N,N-dioctadeca-9-enylpropionamide was greater
      than that achieved with Dotma.
ACCESSION NUMBER: 1998:379115 CAPLUS
DOCUMENT NUMBER: 129:81526
TITLE: Preparation of cationic lipids as materials for
                           liposomes for gene transfer
INVENTOR(S):   Belloni, Paula Nanette; Hirshfeld, Donald Roy; Rink,
                           John Otto; Nester, John Joseph; Peltz, Gary Allen
PATENT ASSIGNEE(S):   F. Hoffmann-la Roche A.-G., Switz.
SOURCE: Jpn. Kokai Tokkyo Koho, 29 pp.
                           CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

       PATENT NO.   KIND   DATE   APPLICATION NO.   DATE
       ----------   ----   --------   --------------------- --------
       JP 10152461   A2   19980609   JP 1997-285925   19971020
       CA 2217550   AA   19980422   CA 1997-2217550   19971007
       EP 846680   A1   19980610   EP 1997-117934   19971016
          R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, SI, LT, LV, FI, RO
       US 6034137   A   20000307   US 1997-954428   19971020
       CN 1180697   A   19980506   CN 1997-121514   19971021
       CN 1068585   B   20010718
       BR 9705117   A   19980915   BR 1997-5117   19971022
PRIORITY APPLN. INFO.:   US 1996-29581P   P 19961022
                                             US 1997-49922P   P 19970618

OTHER SOURCE(S):   MARPAT 129:81526
IT   209396-70-3P 209396-72-5P 209396-85-0P
      209396-86-1P 209396-88-3P 209396-92-9P
      209396-94-1P 209396-98-3P 209397-00-2P
      209397-06-8P 209397-07-9P 209397-09-1P
      209397-10-4P 209397-11-5P 209397-12-6P
      RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological
      study); PREP (Preparation); USES (Uses)
         (preparation of cationic lipids as materials for liposomes)
RN   209396-70-3 CAPLUS
CN   Propanamide, 3-[(aminoiminomethyl)amino]-N,N-di-(9Z)-9-octadecenyl-,
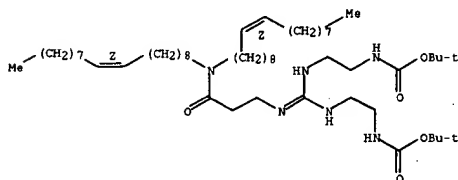   monohydrochloride (9CI) (CA INDEX NAME)
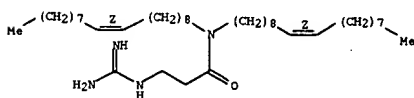
Double bond geometry as shown.

● HCl

RN   209396-72-5 CAPLUS
CN   2,5,7,10-Tetraazaundec-5-enedioic acid, 6-[[3-[di-(9Z)-9-octadecenylamino]-
      3-oxopropyl]amino]-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

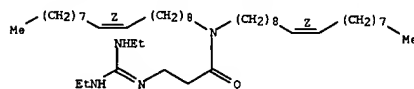Double bond geometry as shown.

RN   209396-85-0 CAPLUS
CN   Propanamide, 3-[(aminoiminomethyl)amino]-N,N-di-(9Z)-9-octadecenyl- (9CI)
      (CA INDEX NAME)
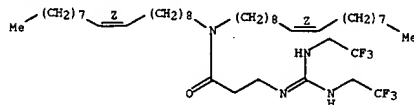
Double bond geometry as shown.

RN   209396-86-1 CAPLUS
CN   Propanamide, 3-[bis(ethylamino)methylene]amino]-N,N-di-(9Z)-9-octadecenyl-
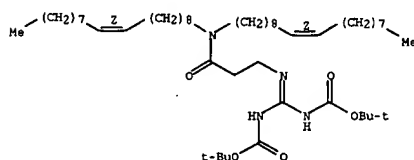   (9CI) (CA INDEX NAME)

Double bond geometry as shown.

RN   209396-88-3 CAPLUS
CN   Propanamide, N,N-di-(9Z)-9-octadecenyl-3-[[[(2,2,2-
      trifluoroethyl)amino][(2,2,2-trifluoroethyl)imino]methyl]amino]- (9CI)
      (CA INDEX NAME)
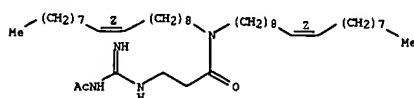
Double bond geometry as shown.

RN   209396-92-9 CAPLUS
CN   Carbamic acid, [[3-[di-(9Z)-9-octadecenylamino]-3-
      oxopropyl]carbonimidoyl]bis-, bis(1,1-dimethylethyl) ester (9CI) (CA
      INDEX NAME)

Double bond geometry as shown.

RN   209396-94-1 CAPLUS
CN   Propanamide, 3-[[(acetylamino)iminomethyl]amino]-N,N-di-(9Z)-9-octadecenyl-
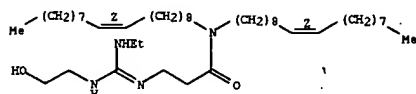   (9CI) (CA INDEX NAME)

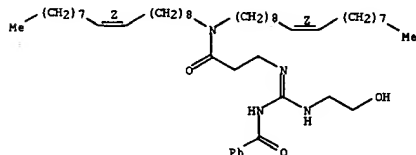Double bond geometry as shown.

RN   209396-98-5 CAPLUS
CN   Propanamide, 3-[[(ethylamino)[(2-hydroxyethyl)amino]methylene]amino]-N,N-di-(9Z)-9-octadecenyl- (9CI)   (CA INDEX NAME)
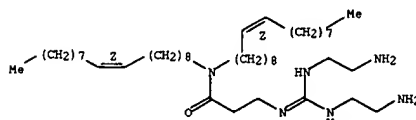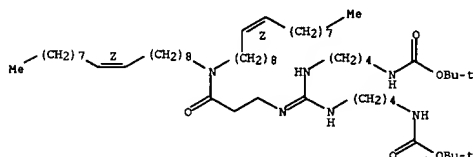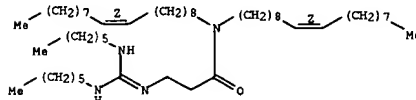
Double bond geometry as shown.

RN   209397-00-2 CAPLUS
CN   Benzamide, N-[[[3-[di-(9Z)-9-octadecenylamino]-3-oxopropyl]amino][(2-hydroxyethyl)amino]methylene]- (9CI)   (CA INDEX NAME)

Double bond geometry as shown.

RN   209397-06-8 CAPLUS
CN   Propanamide, 3-[[[(2-aminoethyl)amino][(2-aminoethyl)imino]methyl]amino]-N,N-di-(9Z)-9-octadecenyl- (9CI)   (CA INDEX NAME)

Double bond geometry as shown.

RN   209397-07-9 CAPLUS
CN   Propanamide, 3-[[bis(butylamino)methylene]amino]-N,N-di-(9Z)-9-octadecenyl- (9CI)   (CA INDEX NAME)
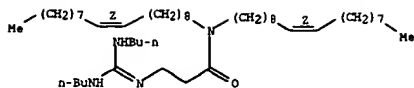
Double bond geometry as shown.

RN   209397-12-6 CAPLUS
CN   Propanamide, 3-[[bis(hexylamino)methylene]amino]-N,N-di-(9Z)-9-octadecenyl- (9CI)   (CA INDEX NAME)
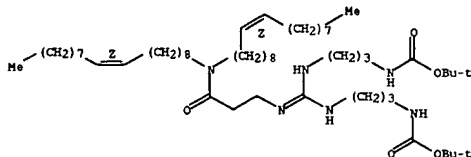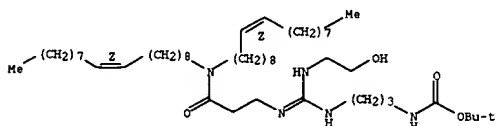
Double bond geometry as shown.

RN   209397-09-1 CAPLUS
CN   2,6,8,12-Tetraazatridec-6-enedioic acid, 7-[[3-[di-(9Z)-9-octadecenylamino]-3-oxopropyl]amino]-, bis(1,1-dimethylethyl) ester (9CI)   (CA INDEX NAME)

Double bond geometry as shown.

RN   209397-10-4 CAPLUS
CN   2,6,8,12-Tetraazatriaconta-6,21-dienoic acid, 7-[(2-hydroxyethyl)amino]-12-(9Z)-9-octadecenyl-11-oxo-, 1,1-dimethylethyl ester, (21E)- (9CI)   (CA INDEX NAME)

Double bond geometry as shown.

RN   209397-11-5 CAPLUS
CN   2,7,9,14-Tetraazapentadec-7-enedioic acid, 8-[[3-[di-(9Z)-9-octadecenylamino]-3-oxopropyl]amino]-, bis(1,1-dimethylethyl) ester (9CI)   (CA INDEX NAME)

Double bond geometry as shown.

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	18.42	1411.94

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.19	-13.14

STN INTERNATIONAL LOGOFF AT 15:30:41 ON 25 APR 2005